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chain nodes:
6 7 9 10
ring nodes:
1 2 3 4 5
chain bonds:
1-6 1-7 7-9 9-10
ring bonds:
1-2 1-5 2-3 3-4 4-5
exact/norm bonds:
1-2 1-5 1-6 1-7 7-9 9-10
exact bonds:
2-3 3-4 4-5
isolated ring systems:
containing 1:
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#### G1:CH3,Et

G1 Me,Et

Match level:
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 7:CLASS 9:CLASS 10:CLASS

## L1 STRUCTURE UPLOADED

=> d 11 L1 HAS NO ANSWERS L1 STR

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100.0% PROCESSED 10 ITERATIONS 2 ANSWERS SEARCH TIME: 00.00.01

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BATCH \*\*COMPLETE\*\*
PROJECTED ITERATIONS: 11 TO 389

Young, Shawquia, Page 3

PROJECTED ANSWERS: 2 TO 124

2 SEA SSS SAM L1 L2

=> s 11 full

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100.0% PROCESSED 210 ITERATIONS 49 ANSWERS

SEARCH TIME: 00.00.01

49 SEA SSS FUL L1

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This file contains CAS Registry Numbers for easy and accurate substance identification.

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16 L3

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14 ARSMER 1 OF 16 BCAPLUS COPYRIGHT 2009 ACS on STN ED Entered STN: 07 Nov 2009 L4 ANSMER 1 OF 16 SCAPLUS COPYRIGHT 2009 ACS on STN (Continued) CN 2 AB The colon includes (a) compde. (1), where \$1, 32 - Mo. Et.

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DOCUMENT TYPE: Patent
LANGUAGE: JAPANESE
FAMILY ACC. NUM. COUNT: 1
FATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO.

JP 2008270437 A 20081106 JP 2007-109802
PRIORITY APPLIA, INFO.: OH 1 CMM 615564-10-8 CMM C7 M16 N O ASSMER 2 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STR Entered STR: 16 Oct 2008 L4 ANSWER 2 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN (Continued) layer capacitor)
HN 615564-11-9 HCAPLUS
CN Pyrrolidinium, 1-(not (CA INDEX NAME) o ethoxymethyl)-1-methyl-, tetrafluoroborate(1-) (1:1) CN 1 CRN 615564-10-8 CMF C7 R16 N O Disclosed is an electrolyte solution for elec. double layer capacitors, Addition of the companies of the following components from a compound of the c CM 2 CRN 14874-70-5 CMF B F4 OCI OCS Aspacitor Shima, Riroaki; Hiketa, Shoji; Abe, Yoshinobu; Nabeshima, Akihiro; Nakagawa, Taiji; Detani, INVENTOR(8): Masatoshi Otsuka Chemical Co., Ltd., Japan PATENT ASSIGNED(S): SOURCE: PCT Int. Appl., 18pp. CODEN: PIXXIII Patent DOCUMENT TYPE: LANGUAGE: Japanese Family Acc. NUM. COUNT: 1
PATENT INFORMATION: REPERENCE COURTS 7 THERE ARE 7 CITED REPERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE PORMAT DATEST SO KIND DATE APPLICATION NO. DATE 

CURCE(5): MMRPAT 149:484744 3544-11-9: TIM [Technical or engineered material use); USES (Uses) [pyrrolidinium tetraflooroborate electrolyte solution for elec. double

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L4 AMEMAS 1 OF 18 BRANCE COPPRIGHT 2009 ACS on STM
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containing protonic acid salt of tertiary searce impurity for
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         metal
ACCESSION NUMBER; 2009;380956 ECAPLUS
DOUBLET NUMBER; 169:429256
Mechanic for montpolycing
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Method for producing high-purity quaternary amossium
Mishida, Tetsuog Misano, Natutakar Oha, Akinotir Aber,
Yoshinony, Nubechina, Akahiro
Otsuka Chemical Co., 1rd., Japany Stella Chemifa
Company (Trime, 1990), 1999.
COSSEN FINGOL
Neterland
            PATENT ASSISMES(S):
            CODEN: FI

LANGUAGE: PATENT
LANGUAGE: JAPANESE
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
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                              CM 1
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CMF CT R16 N O
                                    ANSWER 4 OF 16 BCAPLUS COPYRIGHT 2009 ACS on STN
Entered STD: 04 Jan 2009 :
To contribute to a deeper insight into the bazard potential of ionic
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            ings.

To bumass and the environment, an acetylcholimestersase (hch2) inhibition screening assay was used to identify todicophore substructures and nitrogen atom, a videdy delocalized accoratic system, and inhapped impositionity of the safe chains consecred to the cationic head groups can be identified
            to the byg structural almosts in shading to the supers solite sits. Will be byg structural almosts in shading to the supers solite sits. Will be printing the supers of the superstance 
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TRIS
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                                       ar
regression of the log ICiO vs. the logarithm of the HPLC-derived
lipophilicity parameter kD. Addml., a broad set of anion species
                                          organic and complex borate amions), commonly used as ionic liquid
            owinterious,
was tested and the vast majority exhibited no effect on AchS. Only the
fluoride and fluoride containing anion species which resultly undergo
hydrolytic cleavage one be identified to act as AchS inhibitors.
ACCESION NOMBER: 2009:13468 EXPLUS
COMMENT NOMBER: 104/36741
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Qualitative, and quantisative structure activity Qualitative, and the shaking of the shaking of the continuous control of the cont
            AUTHOR(8)+
            CORPORATE SOURCE:
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Germany
Green Chemistry (2008), 10(1), 47-58
CODER: GROWFF, ISSN: 1463-9262
Noyal Society of Chemistry
Journal
            8003084
            PUBLISHER:
DOCUMENT TYPE:
LANGUAGE:
IT 151263-00-2
                                       33.123-00-2
XI. BSO (Baologueal study, unclassified); BIOL (Baologueal study)
(qual, and quant, structure activity relationships for inhibitory
effects of cultomo head groups, functionalized side chains and amions
of unic ligs, on acceptioninesterase)
                           15120-5-00-2 BCAPL/S
Pyrrolidanium, 1-(ethoxymethyl)-1-methyl-, chloride (1:1) (CA INDEX
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Young, Shawquia, Page 7

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REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR
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                                  for an EDLC electrolyte with respect to capacitance, power d., even at
      SOURCE
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Journal of Power Sources (2006), 162(2), 1401-1408
CODER: JPROIS, ISSN: 0378-7753
Elsevier B.V.
      FURLISHER:
DOCUMENT TYPE:
                                     615364-10-8
EL: PEP (Properties); TEM (Technical or engineered material use); USES
                                                           es)
(loxic ligs, containing tetrafluoroborate amion for elec. double layer
      capacitors)
PN 615564-10-8 ECAPLUS
CN Pyxxolidamium, l-(nethosymethyl)-l-nethyl- (CA INDEX NAME)
                               ASSMER 6 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN Extered STN: 27 Jul 2006
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          L4 ANSMER 6 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN (Continued)

JP 2005-5789 A 20050112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                JP 2005-228320 A 20050805
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosed is a quaternary annonium salt represented by the formula I (R)
   ritaight dain or branched ally group having 1-4 cashes atoms; 12 cashes atoms; 20 cashes at
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CRN 615564-10-8
CMP C7 B16 N O
                                                                                                                                                                Otanka Chemical Co., Ltd., Japan; Stella Chemifa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NeO-CH2
                                                                                                                                                                                                                                                                                     APPLICATION NO.
CM 2
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CMF C F3 O3 S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          820958-88-1 MCAPLUS
Pyrrolidinium, 1-(methoxymethyl)-1-methyl-, 2,2,2-trifluoroacetate (1:1)
(CA INDEX NAME)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CRN 615564-10-8
CMF C7 H16 N O
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Young, Shawquia, Page 8

14 AREMER 6 OF 16 BCAPLUS COPYRIGHT 2009 ACS on STN (Continued) L4 ANSMER 6 OF 16 SCAPLUS COPTRIGHT 2009 ACS on STN (Continued) CM 2 834861-90-4 BCAPLUS Pyzrolidinium, 1-inethoxymethyl)-1-methyl-, [T-4)-tzitioro-[pentafinoroethyl)borate(1-) [SCI) (CA INDEX NAME) CRN 615564-10-0 CMF C7 B16 N O 820958-89-2 MCAPLUS Pyrrolidinium, 1-(methoxymethyl)-1-methyl-, hexafluorophoxphate(1-) (CA INDEX NAME) CN 1 CMM 615564-10-8 CMM C7 816 N O CM 2 CRN 390750-62-6 CMF C2 B F0 CCI CCS MeOTCH2 No OH 2 902462-35-5 ECAPLUS Pyrrolidinium, 1-(methoxymethyl)-1-methyl-, salt with inidodisulfuryl fluoride (1:1) (921) (CA INDEX NAME) CN 1 CRN 615564-10-8 CMF C7 816 N O CMM 615564-10-8 CMF C7 H16 N O 902773-35-7 MCAPLUS
Pyzrolidinium, 1-(methoxymethy1)-1-methy1-,
[7-4]-fxifiroro(trifiroromethamesulfonato-mO)boxate(1-) (9CI) (CA
TROME (SME) CM 1 CMM 615564-10-8 CMF C7 M16 N O NN 902773-87-9 BCAPLUS
CR Pyrrolidinium, 1-(methoxymethy1)-1-methy1-,
(T-4)-tetrafivoroaluminate(2-)
(SCI) (CA INDEX NUME) CN 1 CHN 615564-10-8 CMF C7 H16 N O

## 14 AREMER 6 OF 16 MCAPLUS COPYRIGHT 2009 ACS on STN (Continued)

901 902773-30-0 BCAPLUS
CR Pyrrolidinium, 1-(methoxymethyl)-1-methyl-, hexafluoroarzemate(1-) [903]
(CA REDEX NUMBER)

(CA INDEX NUME)

CMM 615564-10-8 CMF CT #16 N O

# NeC-CH2 No

CM 2 CMN 16973-45-CMF As F6

NO 902773-39-1 BIAPLUS CB Fyzrolidinium, 1-(methoxymethyl)-1-methyl-, (CC-6-11)-bearfluoroantimocate(1-) (SCI) (CA INDEX NAME)

CMS 615564-10-8 CMF C7 R16 N C

14 ANSWER 6 OF 16 BCAPLUS COPYRIGHT 2009 ACS on STN (Continued)

NO 902773-43-7 BEAPLES
GO Pyrrolidinium, 1-ethyl-1-(methoxymethyl)-, bexafluoroarsemate(1-) (SCI)
(CA INDEX NAME)

CM 1 CMM 820958-92-7 CMM C8 M18 N O

EN\_\_\_\_CH2-ONe

CM 2 CM2 16973-45-8 CMF As P6 CCI CCS

NA SCITTS-44-8 SCAPLUS
CN Pyrrolidinium, 1-ethyl-1-(methoxymethyl)
(T-4)-chlorotrifluoroborate(1-)
(SCI) (CA TMERK NAME)

CH 1

TRN 820958-92-

Young, Shawquia, Page 9

L4 ARSMER 6 OF 16 HCAPLUS COPYRIGHT 2009 NCS on STN (Continued)

MeO CH2 Me

CRS 17111-95-4 CRF F6 Sb

DE 902773-42-6 BCAPLUS
CR Pyrrolidinium, 1-ethyl-1-(methoxymethyl)-, hexaCluorophosphate(1-) (9Cl)
(CA HDEEX NAME)
CM 1

CMS 820958-92-7 CMF C8 M18 N O

CM 2 CMM 16919-18-CMF P6 P CCI CCS

14 ANSMER 6 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN (Continued)

CMM 36503-32-1 CMM 8 C1 M3 OCI OCS

-p- 3+ c1

38 902773-45-9 RCAFLUS
CR Pyrrolidinium, 1-(ethoxymethyl)-1-methyl-, (7-4)-tetrafisoroaluminate(1-)
(9CI) (C. NIMEX NAME)
CM 1

CRR 764620-44-2 CMF C8 B18 N O

CRS 21340-02-3 CRF A1 F4

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RN 902773-66-0 BCAPLUS
CN Pyrrolidinium, 1-(ethoxymethyl)-1-methyl-, hexafluorophoxphate(1-) (PCI)
(CA INDEX NOME)

14 AMENUE 6 OF 16 BCAPLUS COPYRIGHT 2009 ACS on STN (Continued) OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN (Continued) OH 1 EXCTOR2 No. t51263-00-2P 902462-33-3P 902462-34-4P 902462-36-6P 902462-37-7P Gd: DMT (Industrial assurfacture); RCT (Reactant); PREP (Preparation); [Beactant or respent) [preparation of quaternity ammonium salt for electrochem. device) 151263-00-2 PEARLUS Pyrrolidinium, 1-[ethoxymethyl]-1-methyl-, chloride (1:1) (CA INDEX Pyrrolidinium, 1-(ethoxymethyl)-1-methyl-, hexafluoroarzenate(1-) (PCI) (CA IRDEX NAME) CM 1 902462-33-3 BCAPLUS Pyrrolidinium, 1-(methoxymethyl)-1-methyl-, chloride (1:1) (CA INDEX OH 2 CR0 16977-45-9 14 AMSNER 6 OF 16 SCAPLUS COPYRIGHT 2009 ACS on STN (Continued) ANSMER 7 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN Entered STN: 27 Jul 2006 Disclosed are a quaternary ammonium salt (1), an electrolyte solution branched alkyl group having 1-3 C atoms, and X-1 represents N(CN)2 -, SCN-, NO3 -, NCO- or NO2 -.). The electrolyte has high solubility in IN CH2-OME organic solvents and elec. conductivity The electrolyte contains the quaternary salt, and the electrolyte solution contains the electrolyte and organic and the destroyte solution contains the destroyte and organic objects. The destroyte and organic objects of the destroyte and organic from ethylenes cultonate, proppless existonate, disk extraordists, and Media. The electrochem. device uses the address of the destrochem. Solution of the destrochem. Development of the destrochem. Development of the destroy of the d NOGET 73333 MCNEUSS
OCHITAGN THE METALLIC PROPERTY OF THE METALLIC PROP FUZ462-76-6 STAPUTS
Pyzrolidinium, 1-ethyl-1-(methoxymethyl)-, fluoride (1:1) (CA INDEX PATENT ASSIGNEE(S): SOURCE DOCUMENT TYPE: Attent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO | Description | 902462-37-7 SCAPLUS Pyzrolidanium, l-(ethoxymethyl)-l-methyl-, fluoride (l:1) (CA INDEX HER SOURCE(S): MARRAT 145:176099
901767-90-6P, N-Methoxymethyl-N-methylpyrrolidinium dicyananude
901767-91-TP, N-Methoxymethyl-N-methylpyrrolidinium thioryanate
901767-92-6P, N-Methoxymethyl-N-methylpyrrolidinium nutrate Young, Shawquia, Page 10

JUNEAR 10 18 BALLES CONTRIBUT 505 ASS STR [Continued]
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AMEMER 8 OF 16 HEAPLES COPFRIGHT 2009 MCS on STN
Entered STN: 23 Mar 2006
New cyclic quaternary ammonium maits, composed of
N-2-D-methylpyrrolidinium, -oxanolidinium, -piperidinium, or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    14 ANSMER 8 OF 16 SCAPLUS COPYRIGHT 2009 ACS on STN (Continued)
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CMF C7 H16 N O
        -Morpholinian
cations (R = n-Bs, McCCR2, McCCR2s) and a perfluoreallyltrifluoredocate
annes ([NTST3] =, NF = FSC, C2FS, n-C2F3, n-C4F3), were symthesized and
characterized. Most of these salts are liqs, at room temperature. The
                             properties of these salts, ramely, phase transitions, thermal stability, d., viscosity, conductivity, and electrochem, windows, were measured and to those of their corresponding [874]—and [17500]209]—salts. The structural effect on all the above properties was intensively studied intens of the ledectify of the cution and sules, variation of the side
     chain
in the cation [i.e., alkyl vs. alkyl ether), and change in the length of
the perfluoroalkyl group [RF] in the [RFSF3]—ion. The reduction of Li
the performancing compiler in the DEFFICE inc. The contention of List and security of the limits to any last in present the performance of List and the DEFFICE inc. The performance of List and List and
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CR Pyroladinium, 1-(methoxymethyl)-1-methyl-, salt with
1,1,1-trafluoro-N-(trifluoromethyl)sulfonyl]methanesulfonamade (1:1)
(SCI) (CA NUMEX NAME)
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CMF C7 H16 N O
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Wiley-VCE Verlag GebE & Co. NGeA
Journal
     PUBLISHER:
  FURLISER: Miley-YCS Verlag Gr
DOCUMENT TIPE: JOURNAL
LAMBURGE: English
OTHER SCHUCK[5]: CHIRALT 144:46809:
IT 61554-11-9F 810958-79-0F 834861-90-4F
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CMF C2 F6 N 04 S2
     14 ANSWER 0 OF 16 MCAPLUS COPYRIGHT 2009 ACS on STN (Continued)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CMM 44629-17-6
CMP C B P6
                                814861-90-4 HCAPLUS
Pyrrolidinium, 1-(methoxymethyl)-1-methyl-,
(7-4)-trafiwore(pentafiworethyl)borate(1-) (9CI) (CA INDEX NAME)
                                CM 2
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EL NOT (Resetant); STM (Symbolic preparation); PEE (Feparation); EAC (Deparation); EAC (Peparation); EAC 
                                CR20 615564-10-8
CMF C7 R16 N O
  MeC-CR2 Ne
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                                CM 2
                                CMM 390750-62-6
CMF C2 B F8
CCI CCB
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                                   886439-15-2 MCAPLUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TORROT
                                886419-13-2 ECALUM
Pyrroladinum, 1-(methosymothyl)-1-methyl-,
|T-4)-trifluoro(trifluoromethyl)borate(1-) (9CI) (CA INDEX NAME)
                                CM 1
                                CM20 615564-20-8
CMS CT 816 N O
     NeO-CH2 No
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L4 NOMBER 7 OF 16 HOAFLES COFFEIGHT 2009 MCS on STM (Continued)
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TW 267622 3
TW 3690664 22
RU 2329257 C2
RE 757164 A1
TW 26070042471 A1
TW 26070042471 A1
TW 2607004271 A2
TW 2607004440 A2
TW 260704
                                                                   AMBMER 10 OF 16 SCAPLUS CUPYRIGHT 2009 ACS on STM
Entered STM: 13 Jan 2005
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TM 2004-93119367
JP 2005-511389
NN 2006-102854
KN 2006-725342
US 2006-563125
JP 2006-230217
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                                                                             The ammonium sait is represented by I (R1 = C1-4 alkyl group; R2 = Me or Et group; and X-=P-containing amico) II (R1 and R2 are same as I ; Y-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JP 2005-511389
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17 615544-11-9
18. HDD: (Device component use): USES (Uses)
(electrolyte soins, containing quaternary ammonium salts and organic
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50 633564-11-9 MCASUUS

51 633564-11-9 MCASUUS

(C. 10886 1886)
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                                 Takashi
PATENT ASSIGNEE(S):
                                                                                                                                                                                                                                                                                   Otsuka Chemical Co., Ltd., Japan; Stella Chemifa
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CMF C7 R16 N O
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PCT Int. Appl., 122 pp.
CODEN: PINCE2
Patent
                                 SOURCE:
                                 DOCUMENT TYPE:
                                 ANDUANCE: Japanese FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
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CMF 8 F4
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EL: DBW (Device component use); TBM (Technical or engineered naterial use); USES (Uses)
                                 Young, Shawguia, Page 13
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L4 AMSMER 10 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN (Continued)
      CM 3
      CRN 615564-10-0
CRF CT R16 N O
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                                                                                                                   820958-82-5 BCAPLUS
Pyrrolicinium, 1-(methoxymethyl)-1-methyl-, sulfate (2:1) (CA INDEX
      CM 2
                                                                                                                    CMP C7 H16 N O
                                                                                                              NeO-CH2 Ne
[electrolyte solns. containing quaternary ammonium salts and organic solvents for secondary lithium batteries and capacitors)

10 800555-01-4 ECAPUS

CM Pytrolidinium, l-(methosymethyl)-1-methyl-, carbonate (241) (CA INDEX NAME)
      CM 1
      CRR 615564-10-8
CRF C7 R16 N O
14 ANNUAR 10 OF 16 HOAPLIS COPYRIGHT 2009 ACS on STS (Continued)
                                                                                                                   ANSWER 10 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN
     CM 3
      CMM 615564-10-8
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CMF C1 04
                                                                                                              NN 820958-86-9 NCAPLUS
CN Pyrrolidinium, 1-(methoxymethyl)-1-methyl-, scetate (1:1) (CA INDEX
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CMP C7 B16 N O
      CH 1
      CRN 615564-10-8
CMF C7 B16 N O
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CMF C7 H16 N O
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14 ARSMER 10 OF 16 B:APLUS COPYRIGHT 2009 ACS on STN (Continued) L4 AMEMER 10 OF 16 BCAPLES COPYRIGHT 2009 ACS on STN (Continued CN Pyrrolidinium, 1-(methoxymethyl)-1-methyl-, hexafluorophoxphate(1-) (CA INDEX NAME) CH 1 CRN 615564-10-8 CMF C7 R16 N G OH 2 McOTCH2 No 810958-88-1 BTAFLUS Pyrrolidinium, 1-(methoxymethyl)-1-methyl-, 2,2,2-trifluoroscetate (1:1) (CA INDEX NUME) OH 1 CMM 615564-10-8 CMF C7 H16 N O [88] 829558-90-5 ECRELUS CI Pyrrolidinius, 1-inethoxymethyl)-1-methyl-, salt with 1,1,2,2,2-pentallucro-N-[(pentallucroethyl)selfomyl]ethanesulfonamide (121) [CCT) [CA. RUMEN UMEN. CN 1 CRN 615564-10-8 CMP C7 R16 N O 321 820958-89-2 HCAPLUS 14 ANSWER 10 OF 16 SCAPLUS COPYRIGHT 2009 ACS on STN (Continued) 14 ANSWER 10 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN (Continued) CM 2 RN 810958-91-6 ECAPLUS
CN Pyrrolidanium, 1-(ethoxymethyl)-1-methyl-, tetrafluoroborate(1-) (1:1) (CA INDEX NAME) CM 1 C921 764620-44-2 CME C8 818 N O 820958-94-9 ECAPLUS Pyrrolidinium, 1-ethyl-1-(methoxymethyl)-, tetrafluoroborate(1-) (1:1) (CA INDEX NUME) CN 1 CMN 820958-92-7 CMF C8 H18 N O CRN 14874-70-5 CMF 8 F4 CCI CC8 NO 820936-93-8 MCAPUTS
CN Pyrrolidinium, 1-ethyl-1-(methoxymethyl)-, salt with
1;1,1-errifuoro-R-[(trifuoromethyl)sulfomyl]methamasulfomanide (1:1)
[901] (OS NDEX MMES) CM 2 CRN 820958-92-7 CMF C8 H18 N O ER 820958-96-1 BCAPLES
CR Pyrrolidinium, 1-(ethoxymethyl)-1-ethyl-, tetrafluoroborate(1-) (1|1)
(CA

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n.pr. than the corresponding [EF4]—based ones. Of these salts, some were n.ps. has the corresponding [ER]—thand man. Of these milts, once were larger to the control of t ANSMER 11 OF 16 BCAPLUS COPYRIGHT 2009 MCS on STM (Continued) 81346-41-6 BCAPLUS Fyrrolidinum, 1-(methoxymethyl)-1-methyl-, hydroxide (1:1) (CA INDEX • on-REPERENCE COUNTY 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR RECORD. ALL CITATIONS AVAILABLE IN THE RE

14 ANSMER 11 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STR ED Entered STR: 22 Dec 2004

AB A series of hydrophobic ionic liqs., e.g., I, comprising N-alkyl-8-methylpyrrolidinium and purliborosthyltrificoroborate were prepared and characterized. The (CZFSST3)--based saits showed lower

C2F5BF3]

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14 ANNAS 11 Of 14 NEAVISE COFFIGURE 1009 ACE on NTO (Continued)

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17 Edding | No

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18 | Preparation | NO | No | No |

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15 | Precision | No | No | No |

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63146-4-67
RN TO-Description of the Computation of

Young, Shawquia, Page 16

18/01/2009,10563125.trn AMEMIN 12 OF 16 BEARING COPYRIGHT 2009 ACS on STR Intered STRL 31 Oct 2003 The present invention relates to an elect double layer capacitor, particularly to an elect double layer capacitor having high voltage retention and excellent reliability. The elect despite layer capacitor has

a pair of polarized electrodes and an electrolytic solution capable of
forming as elec. double layer at the interface with the polarized
alectrodes, in which the electrolytic solution as an organe
containing a bennese with 1-6 floorine atoms attached,
ACCLEGICH IMPAGES 10 2003-085513 EXAMPLES. 2003-85351 EXPERS
1971-44428 layer capacitor with high voltage retention and seculent reliability research and seculent reliability research falsely finitewish, strayer Teshids, Stocky Anah Class Company, Limited, Japan Cit. 78th April 1981, Fabl., 10 yp.
Netest Chanco Company, Limited, Japan Cit. 78th April 1981, Fabl., 10 yp.
Netest Chanco Company, Limited, Japan Cit. 78th April 1981, Fabl., 10 yp. INVESTOR(S): PATENT ASSISSMEN(S): DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: A1 20031030 82 20050412 A 20040108 A2 20031126 A3 20060118 OTEER SURFICE(8): NASPAT 139:744420
IT 61544-11-9
NA: DEV Device component use); USES (Uses)
(electrolytic solution montaining; elec. double layer capacitor with voltage retention and excellent reliability)
615564-11-9 ECAPLUS

Pyxroladinium, 1-(nethoxymethyl)-1-methyl-, tetrafluoroboxate(1-) (1:1) CH 3 CRN 615564-10-8 CMF C7 R16 N O

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CORPORATE SOURCE: D. Teeh. Univ., Poznan, Pol. Tenside, Surfactants, Detergents (1993), 30(5),

CODEN: TSDEES; ISSN: 0932-3414 DOCUMENT TYPE: Journal German

DOUNGERT TIPE: Journal
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ST 1770 [Properties]
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L4 AMSMER 12 OF 16 HCAPLUS COPYRIGHT 2009 ACS on STN | Continued MeO CH2 No CN 2 REFERENCE COUNTY 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR RECORD. ALL CITATIONS AVAILABLE IN THE RE

NAMES 1 of 7 t 2009100 CONTRIBUT 2009 ACS on STR 1000 column 1000

I. Ba(CB)2.8E20 (95 g.) in 1900 ml. boiling H2O treated portionwise with III in 100 ml. H2O, refluxed 2.5 hrs., the precipitate centrifuged, the solution concentrated to half volume, Na++ removed by treating with H2SG4, the concentrated

natalytically reduced with 0.6 g. PtO2 (1.6 1. H absorbed in 15 hrs.)

2,4-MOZC(MeCR(MNe2)CR2)C4H7N (IV). IV in 1 1. EtOR at 0° saturated with MCl gas, kept overnight, and the product concentrated in vacuo gave IV.BCl; this im 35 ml. B20 treated with 100 MacH to pH 9, the solution at 10-15° treated alternately with 32 g. ClcoZEt and 10 g. MacCC3 in 40 g. Rho, the product treated with excess MacCO21, and extracted with

gree 14 g. 1,2.4 maccol phecimes conjected W, 60.2 15°\*, and 15°\*,

residue in
130 N. HDO treated with AgAD (14 g. AgBO3 and 8.5 g. NaCH), stirred 2.5
har. at 20-5\*, the solution momentrated in varue, and the residue
heated at
180.00 nin. at 180.00 gave 20 g. volatile fraction and 2 g.
residue. The former starred with CGE6 and 100 RC1, the agreeous layer

ted with XICO3, and extracted with RE3O gave 14 g. VT, b5.2 100 (piezate, m. 150-17); the CSSE Layer washed with NEXCO3, saturated NaC1, and REO gave 3 g. 1,2-2-2-XCDC(MOSO2) (CHS)CSCER (VII) b5.1 125 ?). VII (4.4 g.) volatile portion contained NoSE (piezate, m. 228°). VII (4.4 g.) and 25.2 g. 85 (005).8820 as 20° agreess colution reflexed 13 hrs., the

faltered off whale hot, Ba++ removed by adding B2804 the H2804 removed by treating with Amberlate IN-48, and the solution concd, gave 2.8 g.

re (VIII) of 2,4-802C(CR2:CRCR2)C487N (IX) and 2,4-802C(MeCR:CR)C487N (X), n (221) et 4,400C(CHICOGNICHT (II) ad 2,400C(CHICOGNICHT (II) ad 2,400C(CHICOGNICHT (II) ad 100C(CHICOGNICHT (II) ad 100C(CHICOGNICHT (II) ad 100C(CHICOGNICHT (II) ad 100C(CHICOGNICHT (III) ad 100C(CH

L4 ANEMER 14 OF 16 REALINE COMPARING 2009 ACS on STM (Continued) compounds. LACK Symbols and C+allylides and ANEMARIS; CONTEST CONTEST

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14 MORRAL N. 97 & MORRAL DOPALET DOP ACE ON UTB (Continued)
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L4 ANSMER 15 OF 16 BCAPLUS COPYRIGHT 2009 ACS on STN ED Entered STR: 22 Apr 2001 AB of. CA. 53, 375, 5250c. NaH (3.04 g.) and 19 g. CO(CR1)2 in 40 ml.

treated dropwise with 15.7 g. Me2CBCHBCH22ac (R = 1-piperidyl) in 16 ml. Bt20, refluxed 30 min., cooled, 8 ml. Bt0M added, the solution poured

250 ml. ice H2O, neutralized with 18 ml. McOM, the oily layer extracted

emolate
solution treated dropuise with 310 g. REGECHECOCNES, the Mg
emolate
solution treated dropuise with 240 g. MeCESCEICHCCI im 300 ml. RECO,
refluxed 30 mlm., cooled, 200 ml. REO added, the REO layer washed with
100 RE204, and the REO layer concentrated gave 400 g. residue that in

Uniform and the MEDI type concentrated year and p. telling that is possible to the property of the property of

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mg. PtG2 and 300 mg. PtG-16 hrs. at room temperature and mormal pressure of H, removing the solvent, stirring the residue with C6H6 and 10% HC1,

treating
the agreeous layer with E2003, and extracting the product with Et20 gave

2,3,5-EtO2C(Me2CB)(EtO2CCB2)C48RN (IV), b0.3 135°, pactate, needles, n. 145°. IV (1.6 g.) and 3.8 g. Ba(OB)2.8BID in 6.2 ml. HIO refluxed 2.5 hrs., the Ba++ removed by addition of excess NESC4, the NESC4 removed by passing through Maberitte IR-4D, and the efficient

gare 0.8 g. 2,7,5-802C(Ne2CH)[8020CH2]C486N, prisms, m. 225\* [decomposition] [820]. ACCESSION NEWNER. 1959,45139 HCAPLUS

an isomatic systalize base, GIOCHARCHERCECECCACAMOR LIAN CORE
GENERAL CORE AND ADMINISTRATION OF THE SECTION OF